

ionidae falls away and I am still on the search for possible ancestors for my Papilionides. And this leads me to believe that photographic methods are probably the only reliable ones for reproducing neuration, and that my efforts for the introduction of photography in the illustration of lepidoptera, commenced first more than twenty years ago, as recently kindly remembered by Mr. Moffat in the pages of the Canadian Entomologist, were efforts bringing fruit. Let me flatter myself also that my efforts to vitalize the study of the wings of the butterflies will not have been in vain, nay, more, that they may even be ultimately crowned by the restoration of Papilio.

*A. Radcliffe Grote, A. M.  
Roemer Museum, June, 1897.*

#### HAYWARD ON BEMBIDIUM.

IN THE Transactions of the American entomological society, vol. 24, p. 32-143 (Feb.-May, 1897), Mr. Roland Hayward publishes a valuable monograph on the species of Bembidium of America, north of Mexico. One hundred and twenty-four species are recognized as valid, twenty-four are described as new, and two new names are pro-

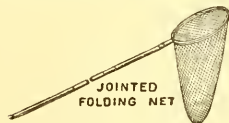
posed for preoccupied names. The original descriptions of thirteen species described by Chaudoir, Mannenheim, and Motschulsky, as yet unidentified, are reprinted in an appendix. In 1857, Dr. Leconte found Duval's grouping of the European species of Bembidium not at all applicable to the species of our fauna, and published (Proc. acad. nat. sci. Phila., p. 2-6) a catalogue of the species found in the United States and contiguous northern regions, together with a tabular separation of the species into groups. Leconte's keen perception of the true affinities of species, evident in all his work, is well shown here, as Mr. Hayward, after a thorough study of a large amount of material, proposes but a slight modification of Leconte's order of arrangement of the groups, suppresses one of his groups, and erects but a single new one. Mr. Hayward's analytical tables are well prepared, and, though useful, should be relied upon only in connection with the descriptions; each species is fully described. The synonymy is carefully worked out, in most cases by direct comparison with the types; an adequate bibliography is given, and the habitat of each species is noted in more detail than usual in works relating to our fauna.

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